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INTERNATIONAL PRELIMINARY EXAMINATION REPORT  
(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference		<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR2002/002032</b>	International filing date (day/month/year) <b>31 OCTOBER 2002 (31.10.2002)</b>	Priority date (day/month/year) 26 JULY 2002 (26.07.2002)	
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 A61J 11/02</b>			
Applicant  <b>HONG, SUK CHU</b>			

1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.  <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of _____ sheets.
3.	This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand  <b>03 MARCH 2004 (03.03.2004)</b>	Date of completion of this report  17 NOVEMBER 2004 (17.11.2004)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  YOON, Kuk Sup  Telephone No. 82-42-481-5612 

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2002/002032

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## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-4	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-4	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-4	YES
	Claims	None	NO

### 2. Citations and explanations (Rule 70.7)

Reference is made to the following document which is written in international search report.

D1 : JP 5-84279 A(6 APR. 1993)

#### 1. Novelty

Claim 1 of the present invention concerns a nursing bottle artificial nipple having a root portion, teat portion with a feeding hole, neck portion comprising : fiber nets(20) embedded within the thickness of the nipple body, and an air flow groove(15) formed in a portion of a surface of the nipple body.

The closest prior art is given by the document D1. This document discloses(cf. Fig. 1) a nursing bottle nipple comprising a teat part, bowl-like drum part and a connecting part.

While claim 1 of the present invention discloses fiber nets and an air flow groove, the most closest prior art D1 does not disclose said component of the present invention.

Thus, claim 1 is novel under Article 33(2).

As a consequence, dependent claims 2-4 are also novel.

(See the supplemental Box.)

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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box No.V

## 2. Inventive Step

Claim 1 of the present invention is intended to present a nursing nipple which has the durability not to be torn with a fatigue load and eliminates difficulty in breathing by facilitating the flow of air. The solution according to claim 1 is from fiber nets and an air flow groove which are equipped in the nipple.

D1 discloses a nursing bottle nipple comprising a teat part, a bowl-like drum part and a connecting part. D1 does not give any inference for the fiber nets and the air flow groove, and the solution in D1 is not obvious for a skilled person in the art.

Thus, the invention in claim 1 is inventive under 33(3) PCT.  
As a consequence, dependent claims 2-4 are also inventive.

## 3. Industrial applicability

Claims 1-4 fulfil the requirement of Article 33(4) PCT.

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